Name: Vignesh S
Regno: 192325002

Experiment: 30. Implement a Smile detection algorithm using Open CV to detect and locate human smile in the images

Code:

```
import cv2

i = cv2.imread("face.jpg")

g = cv2.cvtColor(i, cv2.COLOR_BGR2GRAY)

sc = cv2.CascadeClassifier(cv2.data.haarcascades +

        "haarcascade_smile.xml")

s = sc.detectMultiScale(g, 1.8, 20)

for (x, y, w, h) in s:

    cv2.rectangle(i, (x, y), (x+w, y+h), (0, 0, 255), 2)

cv2.imshow("Smile Detection", i)

cv2.waitKey(0)

cv2.destroyAllWindows()
```

Input and Output: